NUS CORPORATION SUPERFUND DIVISION



VTERNAL CORRESPONDENCE

C-583-9-5-67

TO:

DON SMITH

DATE:

SEPTEMBER 18, 1985

FROM:

NICHOLAS VAROUTSOS N

COPIES:

FILE

SUBJECT:

NEW ENGLAND RESINS AND PIGMENTS SITE INSPECTION REPORT

TDD No. F1-8507-06

Reference No. \$300MA50SI

INTRODUCTION:

The NUS Field Investigation Team (NUS/FIT) was tasked by the Region I U.S. Environmental Protection Agency (EPA) Superfund Branch MA/CT/VT Site Response Section to update existing files and perform an abbreviated Site Inspection of the New England Resins and Pigments Site. Technical Directive Document (TDD) F1-8507-06 was issued on July 16, 1985 for this task.

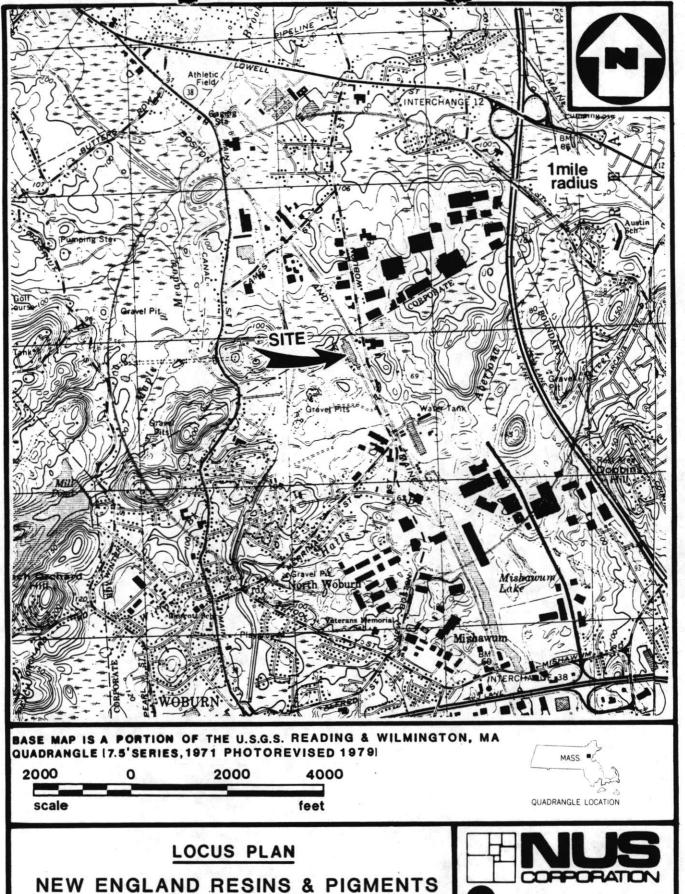
The documents prepared within comply with requirements set forth under EPA Superfund Legislation (CERCLA). However, they do not necessarily fulfill the requirements of other EPA regulations, such as RCRA. The abbreviated Site Inspection is only intended to provide preliminary screening of sites to facilitate site prioritization by EPA. It is not intended to supplant a more detailed investigation.

SITE DESCRIPTION:

New England Resins and Pigments is located on a 16.15 acre lot at 316 New Boston Street in Woburn, Massachusetts which is located east of the Woburn Sanitary Landfill, south of the Woburn/Wilmington line and west of the Boston and Maine railroad tracks (See Figure 1). New England Resins and Pigments is also located on the northern edge of the Industriplex 128 Site which is listed on the Superfund National Priority List. Industriplex 128 is a 244 acre site located in Woburn, Massachusetts and was designated a hazardous waste site by the EPA, based on water and soil analysis by the EPA and the Massachusetts Department of Environmental Quality Engineering (DEQE).

On the property are located one large warehouse and three smaller buildings. The primary activity of this facility is the storage of pigments, resins, and other bagged and drummed materials which are brought into the site by rail cars. The bagged materials include iron oxides, organic pigments, limestone, talc, calcium carbonate, and cabosil. Epoxy resins stored in 55-gallon drums are also present on site. The packaged and drummed materials are left unopened and are stored in the warehouse until they are distributed by New England Resins and Pigments to their customers throughout the New England area.

The New England Resins and Pigments Company does not use any chemicals nor does it manufacture any products. The company does not generate any waste or, dispose of or transport off-site any waste materials.



WOBURN, MA

AUGUST 1985



FIGURE 1

MEMO TO: DON SMITH SEPTEMBER 18, 1985-PAGE TWO

SITE HISTORY:

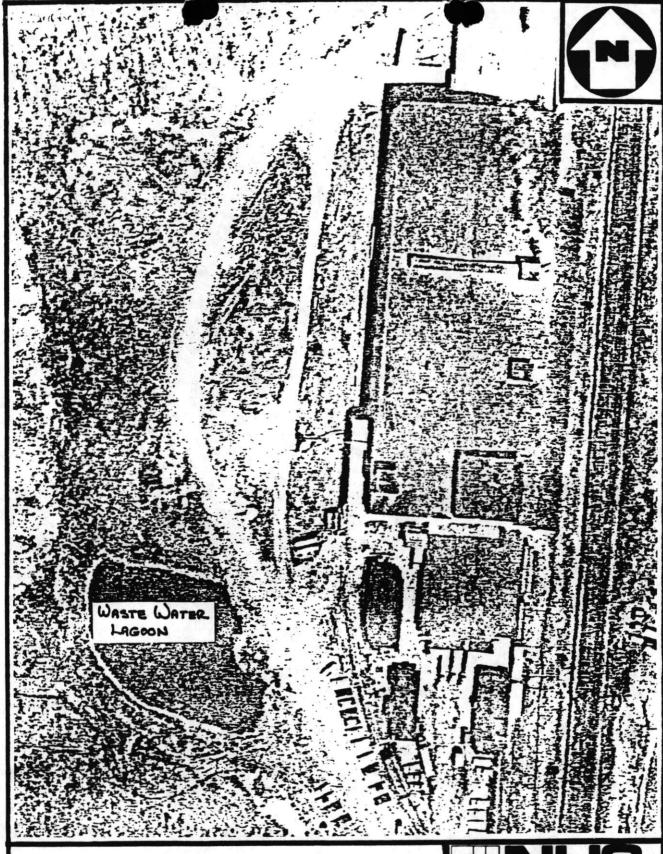
The New England Resins and Pigments Site and the surrounding area to the east has been occupied by a number of different businesses including chemical and fertilizer factories in the past 100 years. The Merrimac Chemical Company occupied the site from 1853 to 1929. Other chemical manufacturers occupied the site and surrounding area between 1929 thru 1963 (1). At least one of these companies maintained a waste or storage lagoon at the rear of the property. The lagoon shown in Figure 2 is present in aerial photographs taken in 1938, 1954 and 1966 (1). The lagoon has been completely covered with fill consisting of sand, gravel, boulders, and building rubble. It is presently used as a parking and/or storage area.

In 1980, EPA tasked Ecology and Environment (E & E) Inc., the former FIT contractor, to conduct a Preliminary Assessment and Site Inspection of the New England Resins and Pigments Site to obtain information and samples for possible RCRA and 311/104 Clean Water Act violations. The E & E reports concluded that no surface or groundwater contamination was resulting from present site activities. E & E did recommend further investigation of the buried lagoon as a possible source of groundwater contamination.

In 1982, E & E conducted a hydrogeologic study of East and North Woburn for the EPA to evaluate groundwater quality. The study indicated contamination by chlorinated organic solvents to be the major groundwater problem in the study area. Included in this study area was the New England Resins and Pigments Site.

During 1982 and 1983, Roux Associates conducted a Phase I and II subsurface investigation of the Woburn Industriplex 128 Site for Stauffer Chemical Company. The New England Resins and Pigments Company is located on the northern edge of the 244 acre Industriplex 128 Site. The investigation included soil borings and installation of two observation wells OW-1 and OW-1A on New England Resins and Pigments property. Observation wells OW-1 and OW-1A are upgradient wells tapping the groundwater that is entering the Industriplex 128 Site from the north. Samples were collected by Roux Associates and Stauffer personnel as part of their investigation of the whole industriplex site area.

The results of sampling from upgradient wells (including OW-1, OW-1A) indicated a number of organic compounds on the Hazardous Substance List were present in the groundwater. Organic compounds, particularly benzene and toluene, which were found in groundwater downgradient of the Industriplex 128 Site during Phase II (1983) sampling, appear to be originating on the site or in developed areas adjacent to the site. Metal concentrations in groundwater beneath and downgradient of the Industriplex 128 Site are generally low and variable. Complete analytical results can be found in the Phase I (1982) and Phase II (1983) investigations of the Industriplex 128 Site by Roux Associates.



AERIAL PHOTOGRAPH
FORMER FERTILIZER COMPANY

BEFORE NEW ENGLAND RESINS and PIGMENTS



FIGURE 2

MEMO TO: DON SMITH SEPTEMBER 18, 1985-PAGE THREE

CURRENT STATUS:

No further investigative work has taken place at New England Resins and Pigments. No alterations in the current operation of the site as described have taken place. It is recommended that no further investigation of New England Resins and Pigments is required at present, since the site area is part of a Remedial Investigation and Feasibility Study of the Woburn Industriplex 128 Superfund Site.

NV/mth

- cc: R. DiNitto
 - J. Morin
 - N. Demorest
 - T. Plant
 - T. Centi/ZPMO

Reviewed and Approved by:

Date:

DiNitto, RPM

New England Resins and Pigments References

- 1. "Site Inspection Report of New England Resins and Pigments," Ecology and Environment, Inc. FIT Team, Region I, August 28, 1980.
- 2. "Preliminary Site Assessment for New England Resins and Pigments," Ecology and Environment, Inc. FIT Team, Region I, August 6, 1980.
- 3. "Evaluation of the Hydrogeology and Groundwater Quality of East and North Woburn," Ecology and Environment, FIT Team, Region I, June 25, 1985.
- 4. "Phase I, Evaluation of Waste Deposits and Subsurface Conditions," Roux Associates, 50 North New York Avenue, Huntington, New York, February 1983.
- 5. "Phase II Investigation Report," Roux Associates, 50 North New York Avenue, Huntington, New York, March 1984.
- 6. U.S.G.S. Topographic Map, Lexington, Mass., 7.5 Minute Series, 1971.

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774
127

POTENTIAL SAZARDOUS VASTE SITE
SITE DISPECTION REPORT AND HES EVALUATION
PARE 1 - Size Information

MAD 055988927

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	- Boston St	Seasa A	210 Code 01801	CLET	,	State	Zip Gode
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	M HISTORY (E						

SITE INSPECTION AND SAFETY REPORT

for

NEW ENGLAND RESINS AND PIGMENTS

316 New Boston Street

Woburn, Massachusetts

Submitted to: Merrill S. Hohman, Director Air and Hazardous Materials Division U.S. EPA, Region I

Submitted by:
David Cook, Project Leader
Ecology and Environment, Inc. (E & E)
FIT Team, Region I

Date Submitted: August 28, 1980

1. Purpose of Inspection

To obtain information and samples for possible RCRA, 311/104 Clean Water Act actions against New England Resins and Pigments.

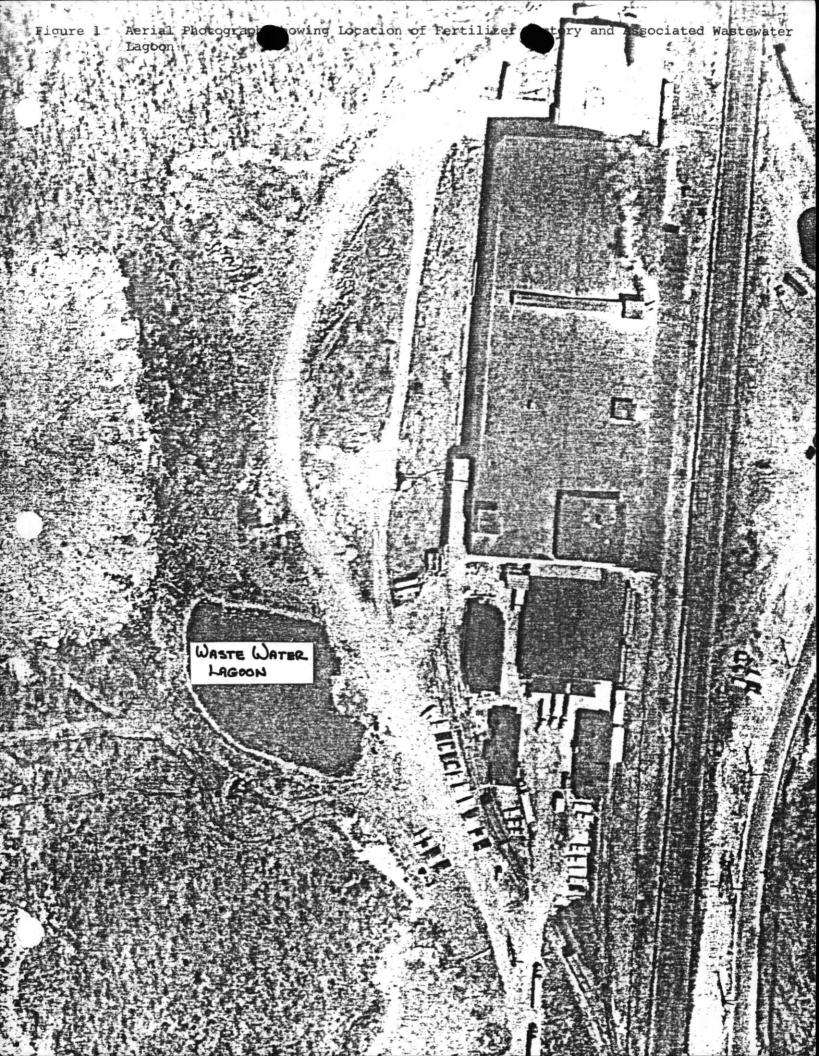
2. Objectives:

To confirm preliminary assessment that New England Resins and Pigments is a warehousing operation and does not generate or store wastes. To investigate buried lagoon (See Figure 1) possibly used for the disposal of wastes when the site was occupied by a fertilizer factory.

3. Background:

3.1 Description:

New England Resins and Pigments is located on a 16.150 - acre lot south of the Woburn/Wilmington line and west of the Boston and Maine railroad tracks (Lot 4015). On the property are located one large warehouse and three smaller buildings. A filled-in lagoon believed to have been used by Merrimac Chemical Company and other fertilizer manufacturers, southwest of the main building (See Figure 1).



3. Background: continued

3.2. Primary Site Activity:

All buildings on the property are presently being used for the storage of pigments, resins, and other bagged and drummed materials. Bagged materials include iron oxides, organic pigments, limestone, talc, calcium carbonate, and Cabosil. Approximately 40,000 pounds of epoxy resins in 55-gallon drums are located in the northern building. Empty pails and cans are also distributed from this plant. No repackaging of any kind is done on the premises except for an accidentally punctured bag or drum. Conspicuously leaking drums are refused during delivery. Turnover time for the entire warehouse contents is approximately two months. Housekeeping in the warehouse is excellent. All drums and bags are carefully labeled, stacked and stored on pallets for easy transfer. The floor is washed regularly to reduce fugitive dust problems, and the washwater is flushed out the warehouse front door. The owner feels that the limestone washed out the door probably helps the grass in front of his warehouse.

3.3 Secondary Site Activity:

N/A

3.4 Hazards Identified or Alleged:

For many years, (approximately 1915 to 1964), the site was occupied by a succession of fertilizer factories. The lagoon shown in Figure 1 is present in air photos taken in 1938, 1954, and 1966. During the 30 plus years of the lagoons existence, it is very likely that nitrates as well as other chemicals were dumped into it. A local resident has stated that piles of white powder were dumped in the swamp land surrounding the factory. Both the lagoon and other deposits have been completely covered with fill consisting of sand, gravel, boulders, and building rubble. no standing water exists on the property at this time.

4. Concept of Operation:

A five-person team was used to conduct the interview with Mr. O'Connor, company president, and to survey the area where hazardous materials may have been placed in the past. Two samples were collected in the drainage ditch east of the site (See Figure 1) and brought to the EPA regional lab in Lexington for analysis. The safety plan and report are presented in Appendix A.

4.1 Sampling Procedures

See Appendix C.

5. Logistics and Site Layout:

Figure 2 shows the present layout of the site and the itinerary of the work party. No logistical problems were encountered during the planning and performance of this site inspection. No decontamination was required.

6. <u>Site Entry Team:</u>

6.1 Team membership/Task assignments:

David Cook Site entry team leader,

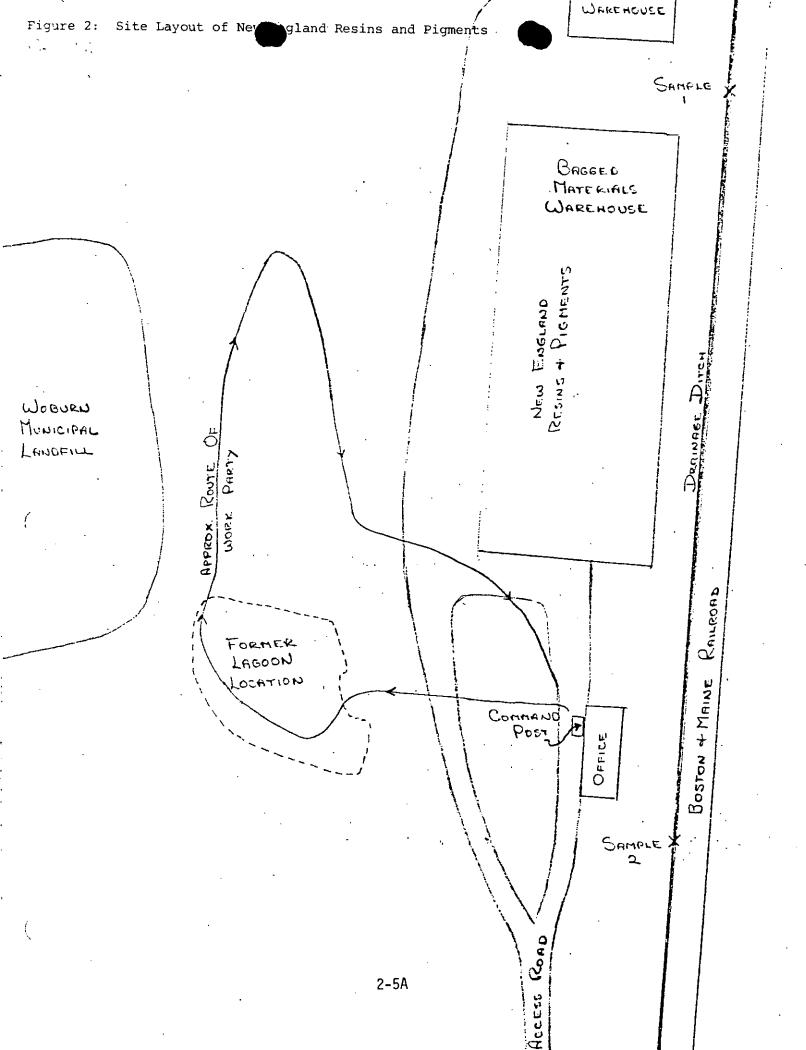
Site representative, Interviewer

Lori Fucarile Site safety officer and documentation

Paul Clay Work party, equipment

Margret Hanley Work party

Paul Exner Work party



6. Site Entry Team - continued

6.2 Schedule of Events:

- 9:00 Work party (Clay, Exner, and Hanley) leave van and proceed to Boston & Main railroad track. Cook proceeds to interview O'Connor.
- 9:05 Sample 1 is taken from the drainage ditch parallel to the railroad tracks. Location of the sample is east of the northern edge of the warehouse.
- 9:10 Sample 2 is taken. Location of the sample is the drainage ditch southeast of the office.
- 9:15 Work party and Cook meet at the command post.
- 9:20 Work party departs from command post.
- 9:30 Work party proceeds east of office to site of buried lagoon and then north to area covered with trash, boulders, and construction debris.
- 9:35 Empty drum noted by Clay
- 9:40 Work party leaves solid waste area and proceed to van.
- 9:45 End of inspection.

7. Results of Investigation:

7.1 Site representative interview:

Mr. O'Connor discussed the present use of the site as outlined in Section 3.2. He acknowledged the possibility of contamination on site due to activities related to the fertilizer industry. Cook and O'Connor conducted a tour of the warehouses, and the results of this tour are outlined in Section 3.2. O'Connor stated that he plans to develop the area underlain by the buried lagoon and is concerned about possible health hazards.

7.2 Sample screening results:

Screening of the two samples taken from the drainage ditch was performed by Clay and Exner at the EPA regional laboratory using gas chromatography. Charts of the two samples were identical indicating no contamination of the drainage ditch by this site.

7.3 On-site survey data:

The area underlain by the buried lagoon was found to be completely covered by fill. Although standing water was noted in May, 1979 aerial photographs, the addition to the area of large quantities of building rubble from a Park Square demolition project has filled in all depressions. No surface water samples could be taken in the lagoon area.

8. Recommendations for Further Investigations:

Possible groundwater contamination from the buried lagoon should be investigated by drilling a bore hole through the lagoon and into the underlying sediment. The resulting core should be monitored using the HNu and a sample of the core analyzed for nitrates and heavy metals.

9. · Conclusions:

No surface or groundwater contamination is resulting from present activities on the site.

No data regarding groundwater contamination resulting from past activities on the site can be acquired without drilling.

A completed Potential hazardous Waste Site - Site Inspection Report is concluded in Appendix. B.

Appendix A

Site Safety Plan

and

Site Safety Report

	E: New England Resins & Pigments ATION: Woburn, MA	DATE: 12 August 1980 PREPARER: A.M. Desmarais TDD NO.: F-1-8006-01
INVE	STIGATIVE OBJECTIVE(S): To determin	e possible RCRA/311/CWA violations by taking
		ROPOSED DATE OF .INVESTIGATION: Aug.
BACK	GROUND REVIEW: COMPLETE XX	PRELIMINARY SERIOUS MODÉRATE XX U
	SITE/ WASTE CHARA	CTERISTICS
CHÁRA	ITY DESCRIPTION: SIZE 16.15 acres TOPOGRAPHY fairly level paved and unpav	KNOWN XX OTHER
	Possible landfilling and/or lagoon by pre- UNUSUAL FEATURES (dike integrity, pow	
	about property	STATUS (open) closed, unimown)
Th⇔rrOi		ints from public; previous agency action)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	1929. Other chemical manufacturers occupie
- ,	site, such as Monsonto, betweem 1929-196	3
<u> </u>	HAZARD EVA	LUATION
	New England Resins and Pigments stores m	inerals such as clay, talc, and bentonite,
	manufacturing or disposal is done on sit	e
	Site previously occupied by a variety of	chemical companies, at least on of which ma
	tained a waste or storage lagoon at the	rear of the property. Lagoon has since been
	filled in and is presently used as a par	king and/or storage area. Vegetation is spa
	on site of filled lagoon.	
	E & E will survey the edges of paved are	a and site of filled lagoon for any indicati
	of contamination, or seepage and take so	
	recommended that this site be dropped fr	om the hazardous waste site list.

1 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	PERIMETER ESTABLISHMENT: MAP/SKETCH ATTACHER C SITE CONTROL PUBLIC PERIMETER IDENTIFIED XX ZONE(S) OF CONTAMINATION IDENTIFIED
	NOTES: No contamination zone. Site is not secured by a fence and is freely acces
	daily by public and workers
. T	c areas of special safety concern identified PERSONAL CLOTHING:
II.	LEVEL OF PROTECTION: A B C D XX MODIFICATIONS: respiratory protection not required, carry Robert Shaw Escape I
,	
	SURVEILLANCE EQUIPMENT AND MATERIALS: TLD badges, explosimeter, oxygen meter
,	OVA, Draeger tubes
	1 DOGERRUPES
III.	DECONTAMINATION PROCEDURES:
	HOT LINE LOCATION (initial): New Boston Road and N.E. Resins & Pigments entrance
	COMMAND POST LOCATION (initial): same 2.
	. FDS SIRITORS: 2.
	3
: (EQUIPMENT AND MATERIALS/SPECIAL FACILITIES:
	No special decontamination necessary. Water will be available on the van
TV	SITE ENTRY PROCEDURES:
1.4	TEAM SIZE: E & E 4 EPA STATE OTHER
	ENTRY BRIEFING (date) prior to entry
	STATION DESIGNATION (name/responsibility): 1. David Cook-Site Entry Le
	2. Paul Clay-equipment, work party 3. Lori Fucarile-safety
	4. Margret Hanley-work party 5.
	6 7
	WORK SCHEDULE/LIMITATIONS: Entry pending permission from N.E. Pesins & Pigme
	NOTES:
	* If area is located for sampling - MSA 401 will be used for sampling

MERGENUI PRECAULIUNS:	
ACUTE EXPOSURE SY OMS	FIRST AID
none expected	
	
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6 OTHER	
HOSPITALS/POISON CONTROL CENTERS (address,	
2. See data sheet	
3	
4	
5	
EMERGENCY TRANSPORTATION SYSTEMS (fire, pol	
	
3.	
MERGENCY ROUTES	
1. Choate Hospital, 21 Warren Ave., Woburn	
2. Take New Boston Street to 128 South, then 128 South	
	ght on Church Street, proceed
4. three blocks to hospital	
EQUIPMENT CHECKOUT	
CYLINDERS . EX	YE WASH UNIT XX
SCBA FI	IRST AID KIT XX
	RINKING WATER SUPPLY [
#5 #F	ERSONAL CLOTHING XX
	ECCIVIA INATION MATERIALS
DIGEOUR 101-	
RADIATION SURVEY METER	• •
	2 None expected 3 4 5 6 OTHER HOSPITALS/POISON CONTROL CENTERS (address, 1. 2 See data sheet 3. 4. 5

ITE SAFETY PLAN SUMMARY DATE: Aug. 1980 · NAME OF SITE: New England Resins & Pigments) TDD #: F-1-8006-01 LOCATION OF SITE: Woburn DIRECTIONS TO SITE: (include map). New Boston Road - Woburn Industriplex Project Leader/Site Entry Leader: Dave Cook Safety Person: Lori Fucarile Equipment Person: Paul Clay Work Party: Dave Cook, Lori Fucarile, Paul Clay, Margret Hanley Reason for Site Entry: Determine potential sampling sites Special Hazards: Possible seeps, B&M railroad nearby HAZARD ASSESSMENT: (H, M. (L) UNK) LEVEL OF PROTECTION: D

LEVEL OF PROTECTION: __D

No respiratory protection necessary except if sampling from lagoon area: MSA

2. Boots

6.

will be worn then Required Protective Equipment:

1. Field Clothing

3. Hard hat 4. Robert Shaw Escape Pack

TLD Badges

7.

9. 10.

RESOURCES (locate resources on area map)

				NOTIFIE
	NAME	TOWN	PHONE	YES/NO
, ur n.a	•			
IRE .	Woburn	Woburn	911	no
MBULANCE	Woburn	Woburn	911	no
OSPITAL ER	Woburn	Woburn	911	no no
OSFITAL ER	Choate Hospital	21 Warren Avenue, Woburn	933-6700	<u>no</u>
ATER SUPPLY	on van an i	n N.E. Resins & Pigments to off	ice	:
ELEPHONE .		& Pigments office	935-8910	ves
ADIO COMMUNICATION	S NA		33380310	, , , , , , , , , , , , , , , , , , ,
IRPORT_	AN			
IELIPORT AREA	NA			
				·
XPLOSIVES UNIT	State Police	S. Lynnfield	593-1122	no
PA CONTACT	Rick Leighton	Lexington	861 - 6700	yes
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IST OTHER RESOURCE	S:			
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		EMERGENCY NUMBERS	•	
& E, Inc., Woburn	(617) 935-	0228 (0238) (4008)		
& E, Inc. Arling			l forwarding	
r. Harbison - Vand				
r. Harbison - home		24 hr. number		
uss Enos - home	(401) 949-			·
nne Marie Desmarai		7-6288		· · · · · · · · · · · · · · · · · · ·
	Occup. Ind. Health			
Dr. Speizer, Dr.	Shenker, Kay Archi	prete (617) 732-5983		
: 24 hour number -	ask for bellboy 90	(617) 732-6000	•••	

SITE SAFETY REPORT

(to be used by Site Entry Leader)

NAME OF SITE: N.E. Regins and Pigments

DATE OF ENTRY:8/19/80

TDD #: F-1-8006-01

Reason for Site Entry:

To determine possible RCRA/311/CWA violations

by taking samples for analysis.

Personnel on Site:

Site Entry Leader:

David Cook

Safety Person:

Lori Fucarile (Safety and Documentation)

Equipment Person:

Paul Clay

Work Party:

Paul Exner

Margret Hanley

Paul Clay

Other E & E Personnel:

Other Personnel on Site: (identify if possible)

Dick O'Connor

President, N.E. Resins and Pigments

Edward Pawlowski

Explain Any YES Answer on an Attached Sheet:

- 1. Was the Safety Plan followed as presented? Explain any and all deviations in full. Yes, TLD badges were worn and Robert Shaw Escape Packs were carried
- 2. Did any team member report chemical exposure?
- 3. Did any team member report illness, discomfort, or unusual No symptoms?

- 4. Did any team member report environmental problems? (heat, cold, etc.)
- 5. Did any team member report injury?
- 6. Did the site entry have to be curtailed for <u>any</u> reason? (rain, lack of air, etc.)
- 7. Were any emergency services or resources utilized?

No

8. Were there any unusual occurences?

No

9. Was the Safety Plan adequate?

Yes

10. What changes would you recommend?

improved equipment i.e. walkie-talkies

HNu and/or OVA, smaller sized rubber boots
and more pairs of black rubber gloves, also
belts to carry sample equipment

Appendix B

Potential Hazardous Waste Site
Site Inspection Report



PILL HAZARDOUS WASTE SITE SITE INSPECTION REPORT



N SITE NUMBER (to be assigned by Hq)

I

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (EN-335), 401 M St., SW; Washington, DC 20460.

	I. SITE IDEN				
A. SITE NAME New England Posins & 1	Diamonto	į.	(or other identifier)	.~+	
New England Resins & I	Pigments	D. STATE	W Boston Stre	F. COUNTY NA	
Woburn		MA	01801	Middlese	
G. SITE OPERATOR INFORMATION		i	ين بند	I 2. TELEPHON	· P NIMABED
	A Diamonto		- June	935-891	
New England Resins and	d Pigments			B. STATE	6. ZIP CODE
316 New Boston Stree				MA	01801
H. REALTY OWNER INFORMATION	if different from operator of site)				
1. NAME				2. TELEPHON	NE NUMBER
3. CITY — — —		<u> </u>		4. STATE	TS. ZIP CODE
3. CITY			•	4. STATE	8. 21F CODE
I. SITE DESCRIPTION		•			1.,
One large warehouse;	3 smaller bldgs.; bur	rie <u>d lag</u>	oon of Merrim	ac Chem., (Co. on property
J. TYPE OF OWNERSHIP					
1. FEDERAL 2. STAT	TE 3. COUNTY	4. MUNICIP	AL X 5. PRIVA	ATE	
	II. TENTATIVE DISPOSITIO	N (complete	• this section last)		
A. ESTIMATE DATE OF TENTATIVE					
Recommend boring at	1. HIGH	2. MEDIUM	[X] 3. LOW	4. NON	E
future date				· ·	
C. PREPARER INFORMATION		^ TELED	HONE NUMBER	3. DATE (510.,	day & vr.)
David K. Cook		935-4	008	8/19/80	
	III. INSPECTION	N INFORMA	TION		
A. PRINCIPAL INSPECTOR INFORMA					
1. NAME		2. TITLE			
David K. Cook		S <u>r.</u> 6	G <u>eo</u> lo <u>gi</u> ca <u>l</u> Eng	ineer	IE NO. (area code & no.)
Ecology & Environment	- Region I Fit Team			935-400	
B. INSPECTION PARTICIPANTS					
1. NAME		NIZATION		3. TEL	EPHONE NO.
Paul Clay	Ecology & Environmer	nt (E &	E)	935-400)8
Paul Exner	<u> E & E</u>			11	
Lori Fucarile	E & E			"	
Margret Hanley Ed Pთეowski	E & E DEQE			935-216	in
Eu 1 6001 UWS KI	DEQE			300-610	50
C. SITE REPRESENTATIVES INTERV	VIEWED (corporate officials, works	ers, residenti	8)		
	2. TITLE & TELEPHONE NO			. ADDRESS	
Richard O'Connor	President, 935-8910	316	New Boston S	treet Woh	urn, MA 01801
Kichard o connor	Tresident, 303 0310	- 313	NEW DOJECTI S	ticey, noo.	ding ret Olog
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1. TYPE OF PHOTOS		1		COOK F & F Fit Tea	m - Dogion T
B. GROUND TO b. AER	RIAL	Dav	via K.	. Cook E & E Fit Tea	m - Region I
D. SITE MAPPED? X YES. SPECIFY LOCATION C)F M	iaps: San	ne as	photos	
	_ '				
E. COORDINATES				2.1000=0=0	
1. LATITUDE (degminsec.)				2. LONGITUDE (degminsec.)	
4'2° 31' 30"	_	<u> </u>		71090	
	_	V. SIT	EINFO	RMATION	
A. SITE STATUS .	-	W 2 1814 CT 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	se l	3 OTHER/SPACES	
1. ACTIVE (Those inductrial o	ed	X 2. INACTIVE (Those sites which no longer re		(Those sites that include such incident	dents like "midnight dumping"
for waste treatment, storage, or dis on a continuing basis, even if infre	spose			where no regular or continuing use of has occurred.) Present Ware	of the site for weste disposal
quently.)				investigated	· ·
B. IS GENERATOR ON SITE?			L	investigatet	
	ecify	y generator's four-digit SIC	: Code):	· · · · · · · · · · · · · · · · · · ·	•
		or sold site		5 year ago	
C. AREA OF SITE (in acres)	_	D. ARE THERE BUILD	DINGS ON	THE SITE?	
16.15		1. NO	2. YES(sp	**	
				nouse plus 3 small bldg	īs.
				OF SITE ACTIVITY	veinte horres
Indicate the major site activity(i		and details relating to t	each act.	ivity by marking 'X' in the approp	'X'
A. TRANSPORTER	Ľ'	B. STORER		C. TREATER	D. DISPOSER
1.RAIL	\rightarrow	1.PILE		1. FIL TRATION	1. LANDFILL
2. SHIP	+^+	2.5URFACE IMPOUNDME	ENT	2. INCINERATION	2. LANDFARM
3. BARGE	╃╌╌┼	3. DRUMS		3. VOLUME REDUCTION	3. OPEN DUMP
4: TRUCK	1	4. TANK, ABOVE GROUN		4. RECYCLING/RECOVERY	4. SURFACE IMPOUNDMENT
5. PIPELINE	 	5. TANK, BELOW GROUNS	4D	5. CHEM./PHYS./TREATMENT	5. MIDNIGHT DUMPING 8. INCINERATION
6.OTHER(specify):	\vdash	6.OTHER(specify):	-	6. BIOLOGICAL TREATMENT 7. WASTE OIL REPROCESSING	7. UNDERGROUND INJECTION
·	1		-	B. SOLVENT RECOVERY	B. OTHER(specify):
	1	Now BURIED	-	9. OTHER(specify):	
	1		ŀ	<u> </u>	
,	1			1	
	1			İ	·
	L				
E. SUPPLEMENTAL REPORTS: If which Supplemental Reports you	the have	site falls within any of the filled out and attached to	e categor.		rts must be completed. Indicate
1. STORAGE.	2. lh	NCINERATION 🔲 3. L	_ANDFILL	L X 4. SURFACE (NOW BURIED)] S. DEEP WELL
6. CHEM/BIO/ PHYS TREATMENT	7. L	ANDFARM B.O	DPEN DU		10. RECYCLOR/RECLAIMER
	_	VII. WASTE N	RELATE	D INFORMATION	
A. WASTE TYPE					•
T) 1. LIQUID	2. S	OLID (?) [X] 3. S	SLUDGE	4. GAS	
B. WASTE CHARACTERISTICS					
	2. 10	GNITABLE 3. R	RADIOAC'	TIVE 4. HIGHLY VOLATILE	
			INERT	8. FLAMMABLE	
			*	_ _	
X 9. OTHER (apocify): Nitra C. WASTE CATEGORIES 1. Are records of wastes available		•	ests, inv	intories, etc. below.	
	a	Cuest as maint	, ****		
NO				·	

Continued From Page 2

Continued From From	Continued From Front ASTE RELATED INFORMATION (contil														
0 F-4:4-45	unt (noncify y=it of =									!!	which waste	s are n	rese	nt. \	
	b. OIL	icasur	c. SOL		1		d. CHE			e, SOLIDS				1. Ойн	ER
a, SLUDGE	AMOUNT	AM	OUNT	4 - 14 12			TNUC			ĀM	DUNT		AMOUNT		
1	,														}
UNIT OF MEASURE	UNIT OF MEASURE	UN	IT OF	MEASU	RĒ	UNI	TOFM	EASUF	E	ŮΝ	IT OF MEASL	IR E	ואט	T OF ME	ASURE
X (1) PAINT,	X' OILY	·×·	(1) HAL	OGEN#	TED	· × ·	1) AC1D	s		x:	(1) FLYASH		×	1) LABOR	RATORY,
METALS (2) SLUDGES	(2) OTHER(*pecif	y):	(2) NON				PICK	LING		1	(2) ASBESTOS		-	2) HOSPI	
	1	<u> </u>	(3) OTH			╫	3) C A US				(3) MILLING/I	MINE	,	3) RADIO	ACTIVE
(5) POTW	1									-	FERROUS			4) MUNIC	IP A L
(4) SLUDGE	1					H	4) PEST				 -		 -		R(specify):
(5) OTHER(apocify):						'	5) DYES	/INKS		_	(5) SML TG. W				,,
Amounts unknown							(6) C Y A	NIDE			(6) OTHER(sp				
1							(7) PHE	NOLS							
							(8) HAL	OGEN	5						•
							(9) PCB								
							(10) ME	TAL5							
						X	(11) 011	HER(S)	ecity).						
							Nitr	ates	ļ						
						<u></u>				<u>L</u>	-da- at 5a - 5		1		
D. LIST SUBSTANCES	OF GREATEST CONC		HICH /		3.		(place	ın des	cending	01	rger of nazard)	[<u></u>	 -\
1. SUBST	ANCE	(1)	nark 'X') '		(mark	'(X')		41C	A'S	NUMBER	5.	AMO	ידא ע	6. UNIT
1.30831	A.102	a, \$0-	ь. L 10.	POR	a. HIGH	b. MED	LOW	d. NONE	;	_					
			Ī										•		
Nitrates		ļ	X	ļ <u>.</u>			-	<u> </u>	<u> </u>			-			
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			1	1 111 44	7400	DE	SCRIPT	LION	1			ــــــــــــــــــــــــــــــــــــــ			
FIELD EVALUATION		NPTIO	N: Pl	ace an	'X' ir	the	box to	indic	ate tha	t t	he listed haz	ard exi	ists.	Descri	be the
hazard in the space				-								 .			
A. HUMAN HEAI	LIN NAZAKUS														
	·													1	(
1	None														`
1						•					•				
	,														
1															
1															•

o on the contract of the contr	1711	HAZARD DESCRI	PTION (continue		
B. NON-WORKER INJURY/EXP		HAZARD DESCRI	FIION (continue	a)	
·					•
				•	
	NONE	•			
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			<u></u>	•	
C. WORKER INJURY/EXPOSUR	E				•
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[•				
	NONE				,
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D. CONTAMINATION OF WATER	R SUPPLY				
				•	
	NONE				
Ì	NONL				
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			•		
E. CONTAMINATION OF FOOD	CHAIN	a waster as	•	-	-
ł					•
1	NONE.			•	
<u> </u>	NONE	*			
					•
<u> </u>					
F. CONTAMINATION OF GROUN	ND WATER				
			÷		•
	<u>-</u>	_	_	·	
	Buried la	goon may be o	contaminați	ng ground water	
			•		,
				•	
			÷		•
G. CONTAMINATION OF SURFA	CE WATER			*	
	NONE				
	NONE		·		
	NONE				
)	NONE		·		
	NONE	·	·		

Continued From Front						y				<u> </u>
pulling		VIII. HAZARD D	ESCRIPTION	l (continued	1)					
H. DAMAGE TO FLORA/FAUNA										
						-				
						-				
	NONE		ı					•		
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. I. FISH KILL	· · · · · · · · · · · · · · · · · · ·					<u></u>		_		
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		•								
	NOVE									
	NONE									
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J. CONTAMINATION OF AIR			_							
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	NONE									
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K. NOTICEABLE ODORS	.	-					*	•		
	NONE									
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ı										
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L. CONTAMINATION OF SOIL										
			•			•				
	Relate	ed to ground	l water co	ontamina	tion	•				
		J. 23,14		. , . ,						
						•		•		
			•	•						
			·			_				
M. PROPERTY DAMAGE						.	•			
		-								
	NONE						٠			(

Continues From Page b	VIII. HAZARD DESCRIPTION (continued	
N. FIRE OR EXPLOSION		,
		•
	'NONE	
	NONE	
	3	
O. SPILES/LEAKING CONTAIN	NERS/RUNOFF/STANDING LIQUID	
O. SPILES/ LEAKING CONTAIN	TELS, NOROFF, STANDING EIGOD	**
·		
·	NONE .	
W =		
P. SEWER, STORM DRAIN PRO	JELEMS .	•
	•	
	MDC course results	
	MDC sewer nearby could be infiltration into sewer	
	•	
	•	·
O, EROSION PROBLEMS	and the second of the second o	
		•
	NONE	•
R. INADEQUATE SECURITY		
	•	
	NONE	
	•	
S. INCOMPATIBLE WASTES		
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	NONE	
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		VIII. HAZARD DES	CKIPTION (continuea)				\Box
T. MIDNIGHT DUMPING							1
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-							ļ
					•		ŀ
•	NONE						1
· ·		•				- •	
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U. OTHER (epecify):							ı
		•					- 1
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-	NONE						1
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	IX.	POPULATION DIRE	CTLY AFFECTED BY S	ITE	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
	IX.	POPULATION DIRE	CTLY AFFECTED BY S		PPROX. NO.	E. DISTANCE	
A. LOCATION OF POPULATION	В.	APPROX. NO.	C.APPROX. NO. OF PEC	OPLE D.A	PPROX. NO. BUILDINGS	TO SITE	1
A. LOCATION OF POPULATION	В.		C. APPROX. NO. OF PEC	OPLE D.A			
A. LOCATION OF POPULATION	B. OF PE	APPROX. NO. OPLE AFFECTED	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	
	B. OF PE	APPROX. NO.	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	
1. IN RESIDENTIAL AREAS	of PE Not	APPROX. NO. OPLE AFFECTED applicable	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	1
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS	of PE Not	APPROX. NO. OPLE AFFECTED	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	
1. IN RESIDENTIAL AREAS 1. IN COMMERCIAL 2. OR INDUSTRIAL AREAS	Not	APPROX. NO. OPLE AFFECTED applicable applicable	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS IN PUBLICLY 3. TRAVELLED AREAS	Not Not	APPROX. NO. OPLE AFFECTED applicable applicable applicable	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	
1. IN RESIDENTIAL AREAS 1. IN COMMERCIAL 2. OR INDUSTRIAL AREAS	Not Not	APPROX. NO. OPLE AFFECTED applicable applicable	C.APPROX. NO. OF PEC	OPLE D.A	BUILDINGS	TO SITE	1
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY TRAVELLED AREAS 4. PUBLIC USE AREAS (parks, schools, etc.)	Not Not Not Not	applicable applicable applicable applicable applicable Applicable	C. APPROX. NO. OF PECAFFECTED WITHIN UNIT AREA	DPLE D. A OF AI	BUIL DINGS FFECTED	TO SITE (specify units)	
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS IN PUBLICLY 3. TRAVELLED AREAS 4. PUBLIC USE AREAS 4. (parks, schools, etc.) A. DEPTH TO GROUNDWATER(speci	Not Not Not Not	applicable applicable applicable applicable applicable applicable B. DIRECTION OF F	C. APPROX. NO. OF PECAFECTED WITHIN UNIT AREA	DPLE D. A OF AI	WATER USE	TO SITE (epecity units)	es
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY 3. TRAVELLED AREAS 4. PUBLIC USE AREAS (parks, echoois, etc.) A. DEPTHITO GROUNDWATER(epoci	Not Not Not Not	applicable applicable applicable applicable applicable Applicable South or S	C. APPROX. NO. OF PEC AFFECTED WITHIN UNIT AREA ND HYDROLOGICAL DA	DPLE D. A OF AI	WATER USE	TO SITE (epecity units)	es
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY 3. TRAVELLED AREAS 4. PUBLIC USE AREAS 4. PUBLIC USE AREAS 6. (parks, schools, etc.) A. DEPTH TO GROUNDWATER(special points) 1 ess than 20 feed D. POTENTIAL YIELD OF AQUIFER	Not Not Not Not	applicable applicable applicable applicable applicable B. DIRECTION OF F South or S E. DISTANCE TO DI (specify unit of m	C.APPROX. NO. OF PECAFECTED WITHIN UNIT AREA ND HYDROLOGICAL DATE LOW OUTHERS T	TA C. GROUND Indus F. DIRECTI	WATER USE	TO SITE (specify units)	es
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY 3. TRAVELLED AREAS 4. PUBLIC USE AREAS (parks, schools, etc.) A. DEPTH TO GROUNDWATER(special contents) 1 ess than 20 feet of a greater than 3 MGD	Not Not Not Not	applicable applicable applicable applicable applicable B. DIRECTION OF F South or S E. DISTANCE TO DI	C.APPROX. NO. OF PECAFECTED WITHIN UNIT AREA ND HYDROLOGICAL DATE LOW OUTHERS T	DPLE D. A OF AI	WATER USE	TO SITE (epecity units)	es
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY TRAVELLED AREAS 4. PUBLIC USE AREAS 4. (parks, schools, etc.) A. DEPTH TO GROUNDWATER(special color) A. DEPTH TO GROUNDWATER(special color) D. POTENTIAL YIELD OF AQUIFER greater than 3 MGD G. TYPE OF DRINKING WATER SUP	Not Not Not Not	applicable applicable applicable applicable applicable Applicable South or S E. Distance to Distance t	C.APPROX. NO. OF PECAFECTED WITHIN UNIT AREA ND HYDROLOGICAL DA' FLOW OUTHERST RINKING WATER SUPPLY	TA C. GROUND Indus F. DIRECTI	WATER USE	TO SITE (epecity units)	es
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY TRAVELLED AREAS 4. PUBLIC USE AREAS 4. (parks, schools, etc.) A. DEPTH TO GROUNDWATER(special color) A. DEPTH TO GROUNDWATER(special color) D. POTENTIAL YIELD OF AQUIFER greater than 3 MGD G. TYPE OF DRINKING WATER SUP	Not Not Not Not Not	applicable applicable applicable applicable applicable B. DIRECTION OF F South or S E. DISTANCE TO DI (specify unit of m	C.APPROX. NO. OF PECAFECTED WITHIN UNIT AREA ND HYDROLOGICAL DATE LOW OUTHERS T	TA C. GROUND Indus F. DIRECTI	WATER USE	TO SITE (epecity units)	es
1. IN RESIDENTIAL AREAS 2. IN COMMERCIAL OR INDUSTRIAL AREAS 3. IN PUBLICLY 3. TRAVELLED AREAS 4. PUBLIC USE AREAS (parks, echools, etc.) A. DEPTH TO GROUNDWATER(epochantial Vield of Aquifer greater than 3 MGD G. TYPE OF DRINKING WATER SUP 1. NON-COMMUNITY < 15 CONNECTIONS	Not Not Not Not Not	applicable applicable applicable applicable applicable Applicable South or S E. DISTANCE TO DI (appecify unit of m) S MI	C.APPROX. NO. OF PECAFECTED WITHIN UNIT AREA ND HYDROLOGICAL DA' FLOW OUTHERST RINKING WATER SUPPLY	TA C. GROUND Indus F. DIRECTI	WATER USE	TO SITE (epecity units)	es

Continued From	Page 8						
			X. WATER AND HYDROLOGICA	L DATA	(continued)		
H. LIST ALL DRIN	KING WAT	ER WE	ELLS WITHIN A 1/4 MILE RADIUS OF SITE	NON	<u>E</u>		В.
1. WELL	2. DE	PTH unit)	3. LOCA (proximity to popula	TION ation/buil	ding*)	NON-COM- MUNITY (mark 'X')	COMMUN- ITY (mark 'X')
<u> </u>					•		
							
			·	-			
				. ·			
I. RECEIVING WA	TER	<u>:</u>				J	<u></u>
1. NAME			A 2. SEWERS	i, STREAI	MS/RIVERS		•
			4. LAKES/RESERVOIRS	S. OTHER	(specify):		
6. SPECIFY USE	AND CLAS	SIFIC	ATION OF RECEIVING WATERS			·	
.Sewers	MDC W	later	treatment facility	-			
			XI. SOIL AND VEGITAT	ION DA	TA		
LOCATION OF SI	TE IS IN:						
A. KNOWN I	FAULT ZO	NE	B. KARST ZONE] c. 100	YEAR FLOOD PLAIN	D. WETLANI	•
E. A REGUI	LATED FL	00DW/			HARGE ZONE OR SOLE SOUR	CE AQUIFER	
			XII. TYPE OF GEOLOGICAL MA	TERIAL	OBSERVED		
Mark 'X' to indi	cate the t	/pe(s)	of geological material observed and spe	cify wher	re necessary; the component	parts.	
A. CVERBU	RDEN	'X	B. BEDROCK (apacify below)	}	C. OTHER (*p*	cify below)	
X 1. SANDAS	fill	·			Entire site cove demolition mater		
2. CLAY					fill (boulders,		c.)
}		-					
X 3. GRAVEL	as fill		XIII. SOIL PERMEA	BUITY	<u> </u>		-
			XIII. SUIL PERMEA	BILIT		•	
X A. UNKNOW		1 cm/=	B. VERY HIGH (100,000 to 1000	cm/sec.)	C. HIGH (1000 to 10 c		ec.) ·
G. RECHARGE A			<u> </u>	,			
I. YES	2. NO	3	. COMMENTS:				
1. YES	2, NO	3	. COMMENTS:	· -			
I. SLOPE 1. ESTIMATE %	OF \$LOPE	2	2. SPECIFY DIRECTION OF SLOPE, CONDI	TION OF	SLOPE, ETC:		
J. OTHER GEOL	OGICAL D	ATA					
J. OTHER GEOL	JOIGHE DI	.,,	·				
1							
	2 (10 70)		PAGE 9 OF	10	•	Continue On	Reverse

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Continuéd From Front							
-		XIV. PERMIT IN					
List all applicable permits he	ld by the site and	provide the related i	nformation.				
A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)		C. PERMIT NUMBER	D. DATE	E: EXPIRATION DATE (mo.,day,&yr.)	F. IN COMPLIANCE (mark 'X')		
	B. ISSUING AGENCY		ISSUED (mo+,day,&yr+)		1. YES	2. NO	3. UN- KNOWN
Not applicable				,			
						ļ	
							ļ
	XV. PAST	REGULATORY OR E	NFORCEMENT AC	TIONS			
		·					
		The major of the major of the second of the	· · · · · · · · · · · · · · · · · · ·			٠	
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on the first page of this form.

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COMMENTS: At future date, boreholes should be drilled through fill over lagoon to see if hazardous material is seeping from buried lagoon into ground water, and to determine actual identity of contaminants.

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information

APPENDIX C

SAMPLING PROCEDURES

APPENDIX C

SAMPLING PROCEDURES

On Tuesday morning, August 19, 1980, Paul Clay, Margret Hanley, and Paul Exner took two samples near New England Resins and Pigments. Notes of the activity were taken by Lori Fucarile. M. Hanley watched for passing trains, P. Clay and P. Exner walked north from New England Resins and Pigments along the Boston and Maine railroad tracks to a point where water in the drainage ditch on the west side of the tracks exited from a buried pipe, at approximately the northern boundary of New England Resins and Pigments property. Two 40 ml. septum vials were filled with the water from the drainage ditch, leaving no air space, for GC/MS analysis. Another vial was 75 per cent filled for a head-space analysis on the Century Organic Vapor Analyser (Sample Station #1, NPR 002). All samples taken during this activity were done so by holding each vial while wearing a rubber glove and dipping the vial below the surface of the water in the drainage ditch. Floating material and subsurface material were captured in this manner.

Upon returning to the van, chain-of-custody forms were completed, each vial was tagged before being placed in an iced cooler.

In general, all samples were clear. However, an oil sheen was observed on the surface of the water in the ditch and an attempt was made to capture some of this floating material. There was no visible difference in the drainage ditch water from the northern and southern boundaries of the New England Resins and Pigments property. It was raining during the sampling activity.